



Bengal Engineering
250 Big Sur Dr.
Goleta, CA 93117

PUBLIC WORKS
DEPARTMENT
ENGINEERING DIVISION

Approved: _____ DATE _____
CITY ENGINEER Original Signed Date

TC _____
MC _____
MD _____
Design Drawn _____
Chk'd _____

DATE	APPROVED	NO.	REVISIONS

QUINIENTOS ST. BRIDGE REPLACEMENT PROJECT
GENERAL PLAN

FA No. BRLO-5007(063)
BRIDGE NO. 51C-0285

2014-00861
PBW. NO.

3716 BR-1
BID NO. SHT. DES.

C-1-4760
DWG. NO.

SHT. 8 OF 8

STANDARD PLANS (2010)

- A10-A-E ABBREVIATIONS
- A62-A EXCAVATION AND BACKFILL MISCELLANEOUS DETAILS
- A62-C LIMITS OF PAY. FOR EXCAVATION & BACKFILL-BRIDGE
- B0-1 BRIDGE DETAILS
- B0-3 BRIDGE DETAILS
- B0-5 BRIDGE DETAILS
- B0-13 BRIDGE DETAILS
- B2-8 PILE DETAILS-CLASS 200
- B6-21 JOINT SEALS (MAXIMUM MOVEMENT RATING =2")
- B11-54 CONCRETE BARRIER TYPE 26

NOTES

- ① Cast "Br. No. 51C-0360" and year completed
- ② Cast "Quinientos St. Bridge" and "Sycamore Creek"
- ③ For Barrier rail aesthetics and layout, see BR-X
- ④ Wingwall
- ⑤ Future Utility Openings (3-3" Conduits)
- ⑥ 4"Ø Gas
- ⑦ 8"Ø City Water line
- ⑧ Channel Wall

GENERAL NOTES
LOAD RESISTANCE FACTOR DESIGN

- Design: AASHTO LRFD Specifications, Sixth Edition with California Amendments (AASHTO-CA BDS-6)
- Seismic Design: Caltrans Seismic Design Criteria (SDC) Version 1.7, April 2013
- Live Loading: HL93 and permit design load
- Dead Load: Includes 35 psf for future wearing surface
- Seismic Loading: Site Specific Acceleration Response Spectra Curve
- Piles: See "Pile Data" table on "Deck Contour" sheet
- Reinforced Concrete: $f_y = 60,000$ psi
 $f_c = 3,600$ psi (Unless otherwise shown or specified)
- Structural Steel: ASTM A709 Grade 50
- Steel Pipe Piles: ASTM A252, Grade 3

Notes:

1. For design notes see "DECK CONTOURS" Sheet.
2. The contractor shall verify all controlling field dimensions before ordering or fabricating any materials.
3. For pile data table, see "DECK CONTOURS" sheet.
4. See road plans for lane and sidewalk layout.
5. Water surface elevation for 100 year event. For HYDROLOGIC SUMMARY, see "FOUNDATION PLAN".
6. See roadway plans for creek grading and retaining walls.
7. Foundation details of existing bridge are unknown.



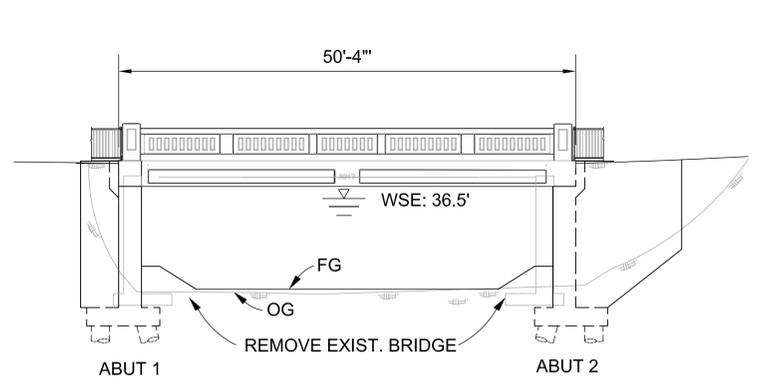
NORTH



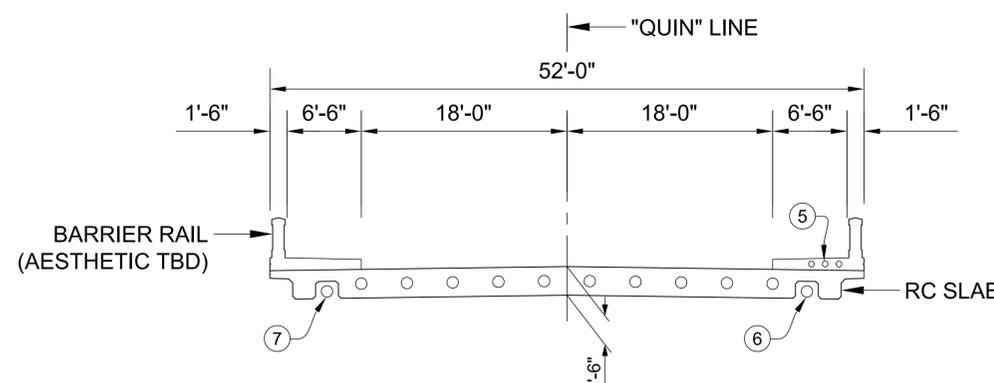
SCALE 1"=10'



PROJECT ENGINEER DATE

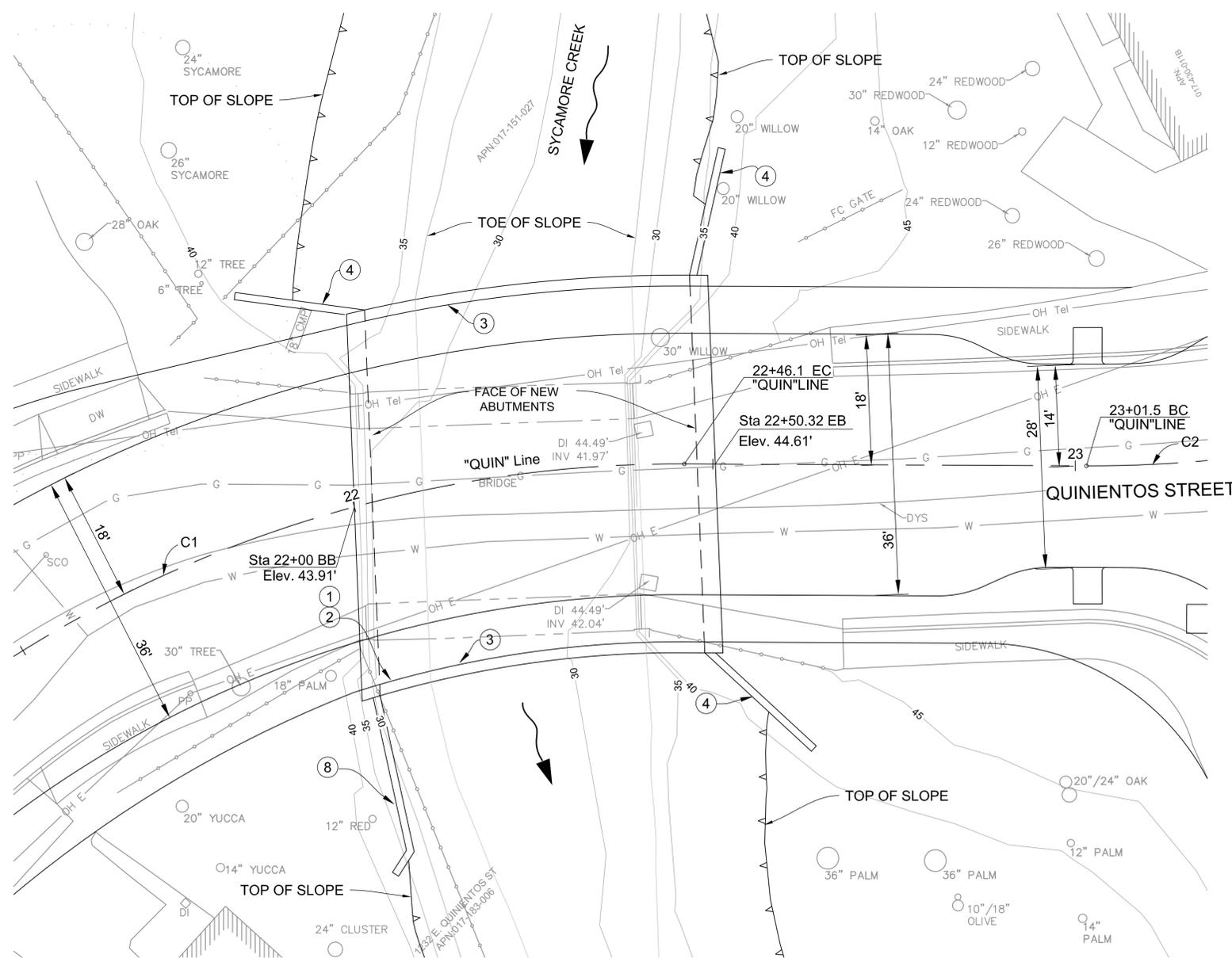


ELEVATION
Scale: 1" = 10'



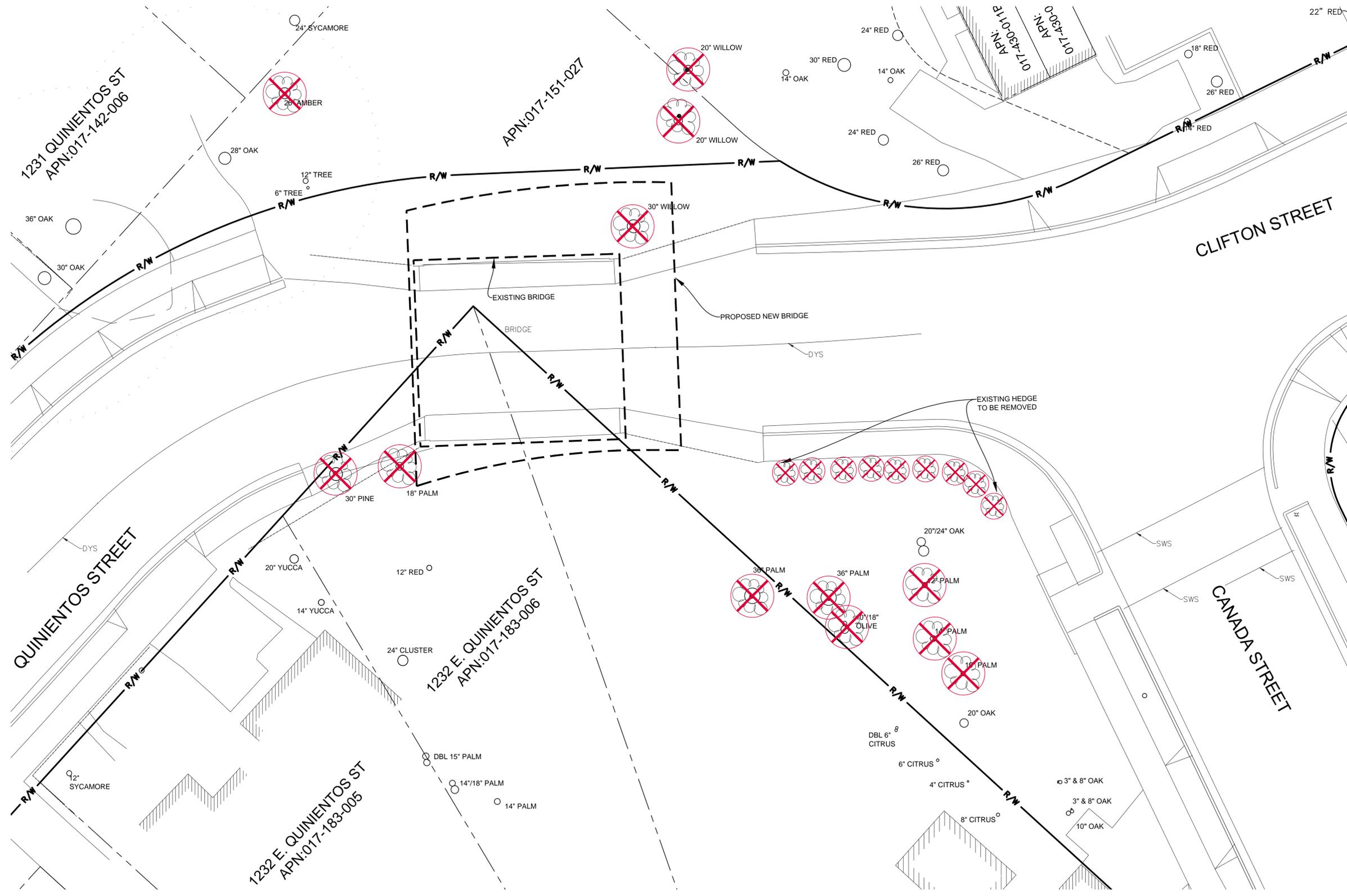
TYPICAL SECTION
Scale: 1/8" = 1'-0"

CURVE DATA				
CURVE	R	Δ	L	T
C1	172.00'	47° 56' 23"	143.91'	139.75'
C2	172.00'	26° 20' 23"	79.07'	78.38'



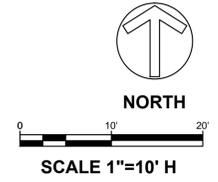
PLAN
Scale: 1" = 10'

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2



TREE REMOVAL PLAN

NOTES:
 1. TREES TO BE REMOVED 





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 TREE REMOVAL PLAN

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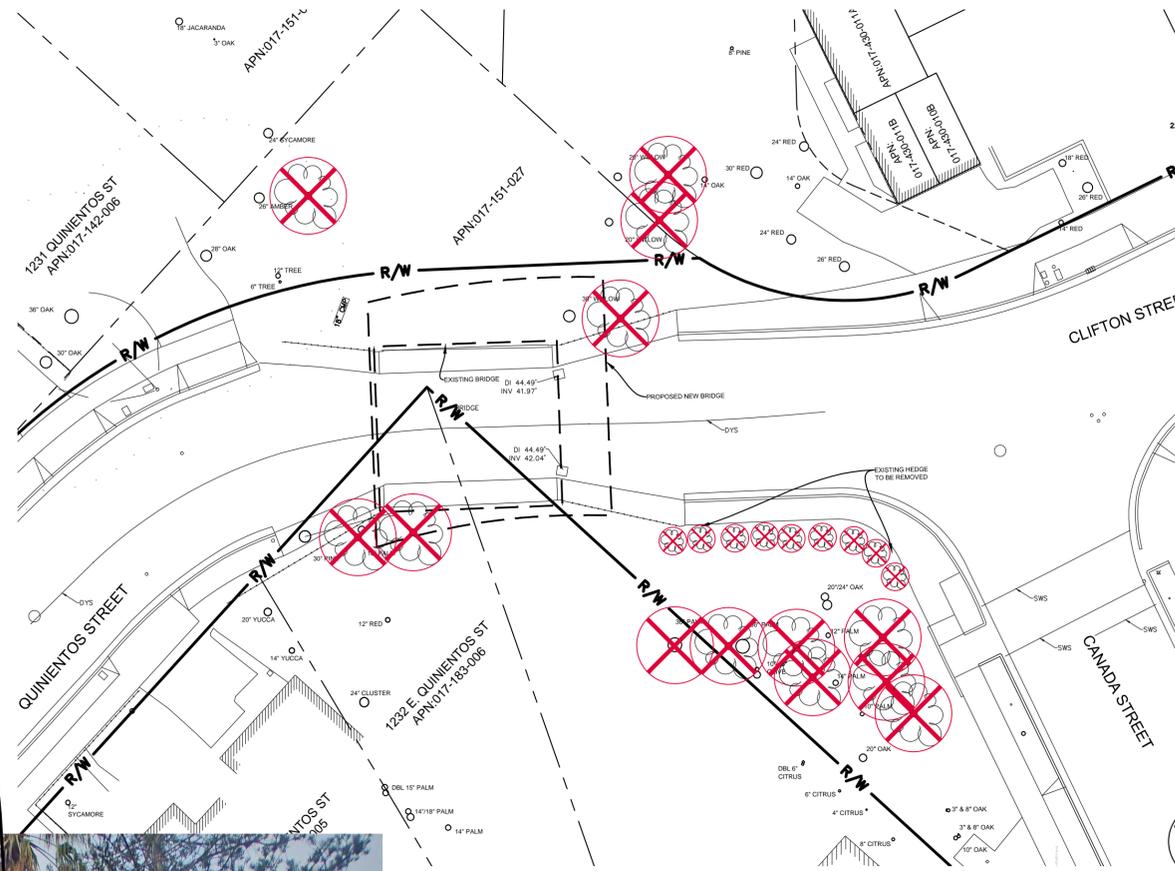
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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2

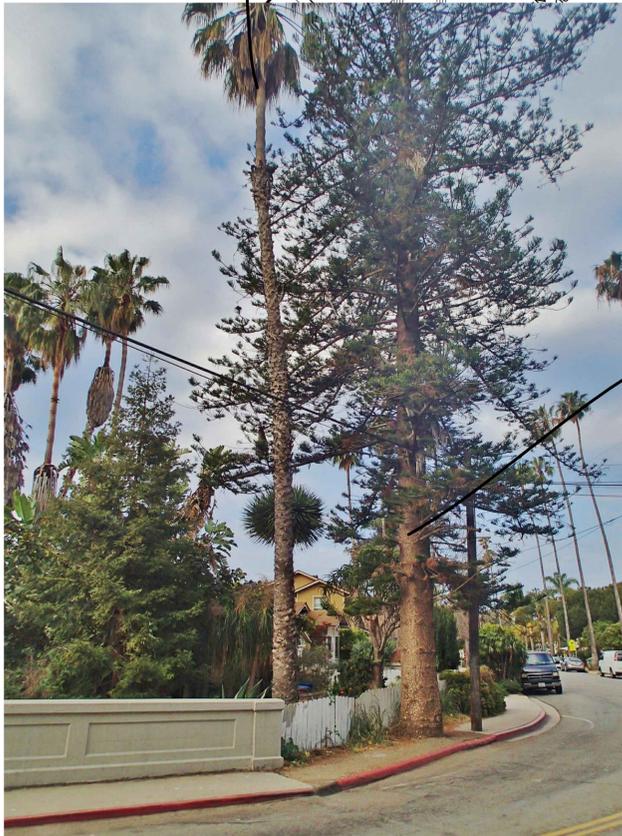


TREE REMOVAL PLAN

SCALE 1"=20' H



18 INCH PALM TREE



SOUTHWEST CORNER OF THE EXISTING BRIDGE.



30 INCH NORFOLK ISLAND PINE



10, 12 & 14 INCH PALM TREES

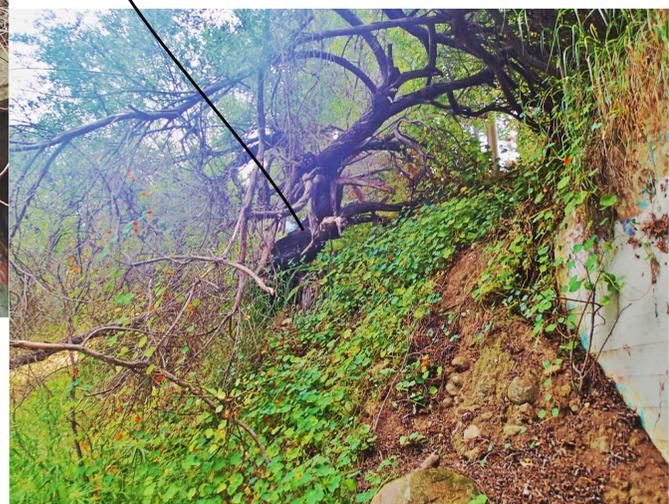


HEDGE TO BE REMOVED



NORTHEAST CORNER OF THE EXISTING BRIDGE.

20 AND 30 INCH WILLOW TREES (3)



36 INCH PALM TREES (2)



SOUTHEAST CORNER OF THE EXISTING BRIDGE.



NOTES:

- 1. TREES TO BE REMOVED
- 2. OVERHEAD WIRES NOT SHOWN



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TREE REMOVAL PLAN
PHOTO EXHIBITS

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